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1. A14-028: Interference Cancellation for Mobile Force Protection Jamming

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Demonstrate an approach for canceling cosite interference on dismounted soldiers as a result of collocated communications and an electronic warfare (EW) system without a physical connection between the EW and communications system. DESCRIPTION: Dismounted soldiers carry various Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) equi ...

SBIR Department of DefenseArmy

2. A14-029: Cyber War Gaming

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: An innovative HW/SW solution will be developed to map a computer host/network, run attack scenarios without disrupting the host/network and develop actionable courses of action to counter real cyber-attacks. DESCRIPTION: The Cyber domain represents an elusive environment that the Army must defend. Over the past two decades, our cyber defenses have been largely ineffective, because o ...

SBIR Department of DefenseArmy

3. A14-030: Fragmented Spectrum Efficiency Manager

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Research and develop programmable RF transceiver technology, including software, hardware and documentation capable of fragmenting one RF transmission into multiple RF fragments and reassembling fragments post reception to original composite. DESCRIPTION: This Fragmented Spectrum Efficiency Manager (FSEM) system effort is intended to provide communications capability to deliver detec ...

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4. A14-031: High-Performance, Low-Power, Acceleration-Compensated Oscillator Technology

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop high-performance, low-power, acceleration-compensated oscillator technology with a combined active and passive compensation utilizing advanced Micro Electro-Mechanical Systems (MEMS) packaging technology. DESCRIPTION: C4ISR/EW systems mounted on high dynamic platforms such as tactical vehicles, fixed and rotary wing aircrafts, unmanned aerial vehicles, and missiles, rely on o ...

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5. A14-032: Anti-Jam Antennas for GPS Pseudolites and Blue Force Electronic Attack (BFEA) Interference Sources

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop a GPS anti-jam antenna that interoperates with both GPS pseudolites and Blue Force Electronic Attack (BFEA) interference sources. DESCRIPTION: The signals transmitted by GPS satellites reach the surface of the earth at extremely low power levels, and as a result, the signals are susceptible to intentional and unintentional interference. Sources of intentional interference, kn ...

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6. A14-033: Ka- and L-band Imaging Radar

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Development of a dual-frequency-band imaging radar operating at L-band and Ka-band with GMTI and"video SAR"capabilities for use on small manned and unmanned aircraft. DESCRIPTION: With different frequency bands, a radar can get very different views of the world. A low frequency radar, operating at L-band for example, will image the larger features of terrain, vegetation, and man-mad ...

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7. A14-034: Current Source for Magnetic Sensor

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: To design, develop and build a prototype RF current source or RF power amplifier that drives the type of low impedance magnetic current loop for the magnetic sensor described below. DESCRIPTION: Operation of the sensor is dependent on the magnetic field that is projected and that in turn is directly related to the current in the magnetic current loop. Conventional 50 ohm amplifiers ...

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8. A14-035: Middle Ultraviolet Semiconductor Laser Diode

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: To develop a semiconductor laser giving an output power greater than 10 mW in the middle ultraviolet (UV) region with center wave tolerance of plus or minus of 10 nm and with good reliability. DESCRIPTION: A compact room temperature semiconductor laser diode emitting in the mid-UV region is needed for testing sensors within a hardware-in-the-loop simulation environment; and for other ...

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9. A14-036: High Frequency (HF) Radio Direction Finding

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop a High Frequency (HF) Time Difference of Arrival (TDOA) radio geolocation remote sensor system that uses a physically small antenna. The High Frequency remote sensor system will be capable and effective at providing accurate geolocation coordinates on High Frequency radios using NVIS (Near Vertical Incidence Skywave) communication mode. DESCRIPTION: Geolocation of High Freque ...

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10. A14-037: Digital Readout Integrated Circuit for Infrared Focal Plane Array

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Research, develop and design a Digital Readout Integrated Circuit (DROIC) optimized for high performance cooled IRFPA technology. Elegant, innovative 2D readout solutions/designs that utilize standard silicon foundry processes are preferred; however a 3D approach that shows high yield potential, reasonable cost to fabricate will be considered. DESCRIPTION: The IR industry"s continua ...

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